



SO. CALIF DX CLUB

Bulletin

SEPTEMBER
1984

President: Joe Locascio, K5KT * Vice President: Marty Woll, N6VI *
 Treasurer: Esther Wolf, KB6HW * Secretary: Dan Davitt, N6CGB *
 Directors: Don Bostrom, N6IC; Jim Rafferty, N6RJ; Chris Williams, K6GAR *
 Membership: Len Gerardi, NC6H * Bulletin Editor: George Morris, W6ABW *

Next meeting: THURSDAY SEPTEMBER 13 AT 7:30 PM IN THE DWP CAFETERIA

SEPTEMBER MEETING

HANS AND THE LAW

Antenna and tower restrictions are among the many legal problems which face today's DXer. These, and other, subjects will be addressed at our September meeting by Jon Gallo, KB6WT, a SCDXC member and an attorney.

FATHER MORAN, 9N1MM, UNABLE TO ATTEND

Father Moran, 9N1MM, had previously been announced as the speaker for the September meeting. Unfortunately, his travel plans have changed so that he is unable to be in Los Angeles the night of our meeting.

RF TEST EQUIPMENT AVAILABLE

By Marty Woll, N6VI

I have recently acquired a Hewlett-Packard 608-D VHF signal generator and a 415-B swr meter, by poking around swap meets. Although hardly state-of-the-art any more, it all works. One of the things I can do with this setup is measure insertion loss in lengths of coax, relays, switches, filters, etc. and port-to-port isolation in relays and switches, all to within a fraction of a db. I have found this capability very helpful in finding faulty components and evaluating newly acquired ones.

I would like to make this modest test facility available to other club members. If you need to run any of the above-described tests give me a call and I will be happy to arrange a time for you to bring the subject hardware to my house, where we can check it out. Sorry I can't make house calls, but the generator isn't very portable (too big and heavy).

I would also like to encourage other club members to let us know what they might have available in the way of test gear (either at home or readily available at work) by dropping a note to the Bulletin editor. I hope this will spread and become a valuable benefit of membership. By sharing our technical resources we can help improve the quality and effectiveness of our collective stations.

CONGRATULATIONS TO MARTY WOLL, N6VI

Our congratulations go to Marty Woll, N6VI, Vice-President of the SCDXC, who has recently been admitted as a partner in Coopers & Lybrand, the international firm of certified public accountants for whom Marty has worked since graduating from college twelve years ago. Marty says, "This is really the main goal of my professional career to date. It's hardly easy street - there will be plenty of new challenges but I hope to have a little more time for radio once I settle into my new role."

ENDORSABLE DXCC AWARD FOR 160 METERS

The ARRL Awards Committee, in consultation with the DX Advisory Committee, has approved an endorsable DXCC award for 160 meters, effective November 1, 1984. Contacts since November 15, 1945, may be credited. Previously, the Top Band award was not endorsable. As with the recently implemented endorsable RTTY award, there will be no Honor Roll on 160 meters. This action was precipitated by Board Minute #35 (March 1984) authorizing additional endorsable awards. An endorsable satellite award permitting OSCAR 10 contacts is still being studied by ARRL in conjunction with AMSAT.

REPEATER WORK IN PROGRESS

The SCDXC repeater has been off the air for the past few days to make some technical modifications to improve operability and flexibility. It is hoped the repeater will be back on the air by the time you receive this month's Bulletin.

SCDXC VP MAKES QST COVER

Marty Woll, N6VI, SCDXC Vice President is on the cover of the September issue of QST. He is shown participating in Olympic activities with a handheld.

A FEW WORDS ABOUT CONTESTING

By Marty Woll, N6VI

There are those who believe that contesting is an activity separate and apart from DXing and that, accordingly, it should not be the province of the Southern California DX Club. As the recently appointed Southwestern Division member of the ARRL Contest Advisory Committee I would like to come to the defense of contesting and, I hope, change a few minds.

To begin with let's look at a traditional "DX" activity: the morning pile-up. To be successful one must possess some combination of propagation awareness, equipment and antenna effectiveness and operating skill, and should enjoy going head-to-head with fellow amateurs in (usually) friendly competition. The successful contester needs all these same qualities. Not much difference here. Now, what does the DXer like to do most? Contact foreign amateurs. There are literally dozens of contests in which you can do just that. The DXer also likes to measure his success by country or band-country or zone count. Gosh! That's just how a contester comes up with his score multiplier. DXers like to see their call in QST. Contesters get their calls in QST and other amateur publications as often as they wish (i.e., as often as they enter contests). It's starting to sound as though these two activities are very similar, indeed.

What benefits can a non-contesting DXer get from trying a few contests? For one thing, he gets enough concentrated on-the-air time to improve his chances of snagging a needed country on a needed band. Those chances are enhanced by the speed at which contacts are made - you don't have to wait for some long-winded type to say good bye for fifteen minutes while the band drops out. His concentrated on-the-air time also sharpens his propagation awareness. And, nothing will point out the weaknesses in one's equipment, antenna system and station layout like some heavy-duty contest operating. A frequent contest participant has

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MINUTES OF THE JULY 12, 1984 MEETING By Dan DaviEE, N6CGB Secretary, SCDXC

The meeting was called to order at 8:06 PM by Joe Locascio, K5KT, SCDXC President. The evening began with the self introduction of members and guests. Seventy persons were counted in attendance.

Cleyn, AD6P, gave an update on the repeater. The controller is due to be installed this coming week or the next week. The 12 PL or the "old" PL are OK.

Fried, WA6WZO, gave a report on the Volunteer Examiner Coordinators (VEC) status.

Dave, W6AQ, was announced as the Banquet speaker for the Southwestern Division ARRL Convention in Santa Maria, October 12, 13, and 14, 1984. Tickets are still available from: HAMCON, Inc., Box 2457, Santa Maria, CA. 93455-0457.

Marty, N6VI, read the list of the evening's prizes, and reminded everyone of the Pizza Bash next month at Me & Ed's Pizza in Lakewood. Possibilities for the September meeting are a visit with Father Moran, 9N1MM, and for the November meeting, W6BIP is scheduled to talk on RFI/TVI/VCCI.

Tex, N6AHV, gave his usual, well received, "Rumors Around the Bands."

Gunner, W6YB/ZS6BCZ, gave a slide presentation on the operation from Swaziland. Reported were some 7,000 contacts and 140 countries for this effort.

The raffle tickets were drawn at the close of the meeting and the winners of the prizes were as follows: W6EA, Dual Time digital clock; WA6NLJ, SS-32 PL; KB6HW, Hi-Pass filter; N6CGB, SS-32 PL; N6AHV, SS-32 PL; W6AQDQ, SS-32 PL; N6FC, SS-32 PL; KB6HW, QST Binder; W6MBV, Coax Seal.

The meeting was adjourned at 9:40 PM.

SCDXC MEMBERS PARTICIPATE IN OLYMPICS

The following SCDXC members participated in amateur radio support for the Olympic marathons: Chuck Lobb, KN6H; Len Geradi, NC6H, and his XYL Judy, KA6FBI; Chris Conner, NX6U, and his XYL Katy, KA6TLD; Joe Locascio, K5KT; and John Alexander, K6SVL.

Don Bostrom, N6IC, participated in amateur radio support for the Olympic yachting competition.

Marty Woll, N6VI, was the assistant manager of the UCLA Olympic Village amateur radio station.

Chuck Lobb, KN6H, has written a story on the Olympic marathons which will appear in the October issue of Worldradio.

MINUTES OF THE AUGUST 9, 1984 MEETING By Dan DaviEE, N6CGB Secretary, SCDXC

The Annual "PIZZA MEETING" was held at Me and Ed's Pizza on Paramount Blvd. in Lakewood.

Since this was a fun, family, get-together, no Club business was conducted.

The group was called to order at 8:09 PM by Marty Woll, N6VI, SCDXC Vice President. Marty began the meeting by reading a list of the door prizes in anticipation of a large number of ticket sales.

At 8:27 PM, the winning tickets for the evening's top prize was drawn, and the very happy owner of the ICOM IC-02 handheld was our President, Joe Locascio, K5KT.

The winners of the remaining prizes were as follows: KA6QHI, MFJ Dual Time Digital Clock; N6CGB's XYL, Lunar 2-Meter Preamp; W6TZD, Drake Low-Pass Filter; W6VZZ, ARRL Repeater Directory; N6JUQ, 6 outlet AC control console; and W6SP, an ARRL Repeater Directory.

The turnout for the evening was 41 persons, 11 being charming YLs!

The meeting was adjourned at 9:10 PM.

SEPTEMBER PROPAGATION PREDICTIONS

The September 15 to October 15 propagation predictions given on page 3 and the September propagation forecast and chart information in the right column are courtesy of CQ magazine. Openings on 160 meters are likely to occur during those times when 80 meter openings are shown with a propagation index of (2) or higher.

ACTIVITY REPORT

K6YRA: HS0JUA 7/27 1430 14199; FW0BT 8/1 0425 14192; H44SH 8/1 1400 14186; V856F 8/5 1320 14170; 4X4BL 8/6 0417 14218; JT1AD 8/6 1427 14227; BY1PK 8/8 0748 14155; BY4AA 8/8 0801 14160; XX9DX 8/8 1417 14245; A22CA 8/8 1425 14253; 9M2RT (SCDXC member NN6U) 8/8 1437 14162; KC7UU/5N6 8/9 0111 14259; LX1TL 8/12 1447 14158; IS0CPU 8/14 0007 14197; T69XLB 8/16 0314 3906; Y80ARA 8/17 1352 7076; ZP5JCY 8/19 1015 3795; DU9RG 8/19 1025 3797; US0K 8/22 0422 14190; UL7EZ 8/23 0311 14174; UL8CWI 8/23 0311 14174; RI8BB 8/23 0329 14224; UF6RB 8/23 0355 14225. All contacts are 558.

FOR SALE:

- 1) Hy-Gain 204BA, 4 element 20 meter monobander, good condition, \$125.
 - 2) Hy-Gain 3 element 15 meter modified (wide spaced), excellent condition, \$85.
- Contact Al, K6YRA.

LAST MINUTE FORECAST

Day-to-Day Conditions Expected for September 1984

Propagation Index	Expected Signal Quality			
	(4)	(3)	(2)	(1)
Above Normal: 2, 13, 21	A	A	B	C
High Normal: 3, 11-12, 18, 22, 28-29	A	B	C	C-D
Low Normal: 1, 4, 8-10, 14, 17, 19-20, 25-27, 30	A-B	B-C	C-D	D-E
Below Normal: 5, 7, 15-16, 23	B-C	C-D	D-E	E
Disturbed: 6, 24	C-E	D-E	E	E

Where expected signal quality is: A—Excellent opening, exceptionally strong, steady signals greater than S9.

B—Good opening, moderately strong signals varying between S8 and S9, with little fading or noise.

C—Fair opening, signals between moderately strong and weak, varying between S3 and S8, with some fading and noise.

D—Poor opening, with weak signals varying between S1 and S3, and with considerable fading and noise.

E—No opening expected.

HOW TO USE THIS FORECAST

1. Find propagation index associated with particular band opening from Propagation Charts appearing on the following pages.
2. With the propagation index, use the above table to find the expected signal quality associated with the band opening for any day of the month. For example, an opening shown in the charts with a propagation index of 3 will be good-to-fair (B-C) on the 1st, excellent (A) on the 2nd, good (B) on the 3rd, good-to-fair (B-C) on the 4th, etc.

HOW TO USE THE DX PROPAGATION CHARTS

1. Use Chart appropriate to your transmitter location. The Eastern USA Chart can be used in the 1, 2, 3, 4, 8, KP4, KG4 and KV4 areas in the USA and adjacent call areas in Canada; the Central USA Chart in the 5, 9 and 0 areas; the Western USA Chart in the 6 and 7 areas, and with somewhat less accuracy in the KH6 and KL7 areas.

2. The predicted times of openings are found under the appropriate meter band column (15 through 80 Meters) for a particular DX region, as shown in the left hand column of the Charts. An * indicates the best time to listen for 160 meter openings.

3. The propagation index is the number that appears in () after the time of each predicted opening. The index indicates the number of days during the month on which the opening is expected to take place as follows:

- (4) Opening should occur on more than 22 days
- (3) Opening should occur between 14 and 22 days
- (2) Opening should occur between 7 and 13 days
- (1) Opening should occur on less than 7 days

Refer to the "Last Minute Forecast" at the beginning of this Propagation column for the actual dates on which an opening with specific propagation index is likely to occur, and the signal quality that can be expected.

4. Time shown in the Charts are in the 24-hour system, where 00 is midnight, 12 is noon; 01 is 1 A.M., 13 is 1 P.M., etc. Appropriate daylight time is used not GMT. To convert to GMT, add to the times shown in the appropriate chart 7 hours in PDT Zone, 6 hours in MDT Zone, 5 hours in CDT Zone, and 4 hours in EDT Zone. For example, 14 hours in Washington, D.C. is 18 GMT. When it is 20 hours in Los Angeles, it is 03 GMT, etc.

5. The charts are based upon a transmitter power of 250 watts c.w., or 1 kw, p.e.p. on sideband, into a dipole antenna a quarter-wavelength above ground on 160 and 80 meters, and a half-wave above ground on 40 and 20 meters, and a wavelength above ground on 15 and 10 meters. For each 10 db gain above these reference levels, the propagation index will increase by one level; for each 10 db loss, it will lower by one level.

6. Propagation data, contained in the Charts has been prepared from basic data published by the Institute For Telecommunication Sciences of the U.S. Dept. of Commerce, Boulder, Colorado, 80302.

QSL UPDATE

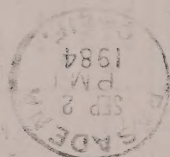
A226M	via	N4FD	CP6JX	via	DK3HL	ET3PS	via	DJ9ZB	H44SA	via	AD1S	IP8ARU	via	IT9FW	KG4AN	via	KA4TAY	OY1R	via	W2KF
A35MO		ZL1AXU	CS8RH		CT4UW	F8H1F		WA4VDE	H44SH		AD1S	IS8CUP		IS8WON	KG4OX		WB2CPV	OY7A		LA9PCA
A35SA		JM1MGP	CS8RS		CT1YH	F8RWJ		F8RV	H44U		H44DX	IT84Z/IS8		DL7HZ	KH8AC		K7ZA	OY8R		W1ITM
A4XJQ		G4MSX	CS1BNY		WD4HRO	F8CQZ		DK5KC	H5AND		ZS6BCR	IT84KFQ		IT92GY	KD7P/KH2		BSVL	OY9R		K2TJL
A4XJW		N4WF	CS1SL		CT1SL	F8H4S		F2VX	H5AYB		K5SBCR	IT84TQH		IT9TQH	O68VVG/KH2		O68VVG	LA5VAA/OY		LA5VAA
A6XJC		WB3CQN	CS5SRL		CT1AHU	F8H1U		F6EYS	H8BCBJ		DL1BP	IT84VDQ		IT9TQH	WB6B/KH4		KH6VR	O21FFG/OY		O21FFG
K6UA/A6		K6UA	CS7NH		CT4UH	F8H1K		K6KTT	H8BCD		H8BAHC	DL7HZ/IT84		DL7HZ	KH6XX		W3RNR	O25UR/OY		O25UR
A71BK		G4HNP	CT8BI		CT4UW	F67CK		F67BT	DA1WA/HB8		OJ8LC	OW5NT/IT84		OW7SK	KH6JEB/KH7		KH6JEB	O28AE/OY		O28AE
A82LC		SM4CWY	CT1CSN		WA3LUP	F8HCL		WA4VDE	DF4GV/HB8		DF4GV	IY4FGM		I4IKW	KH6LW/KH7		KH6JEB	PK29G		VK2BSM
A92DQ		K2TJL	CT2AK		W3HMK	FK8AI		F6EWM	DF7XA/HB8		DF7XA	J28DP		F2GA	N2EDQ/KH7		KH6JEB	P29NBF		K6UJL
A92DY		WB1LU	CT2CQ		W1RM	FK8AU		I8RH	DL8G8H/HB8		DL8G8H	J28DX		F1CFD	WB60/KH7		KH6VR	P42J		W1KDD
A92EB		K8JLST	CT2DL		KE4OC	F8H1J		W2GHE	OW4UBA/HB8		OW7FK	J28DX		F1CDA	VE7B8C/KH8		VE7CQN	PA8VDV/PJ2		PA8VDV
A92NH		WB1LU	CT2FN		F66CW	F8H1J		F6BEE	OW5NT/HB8		OW7FK	J37AH		W2GHE	VE7LB/KH8		VE7LB	W1BIH/PJ2		W1KDD
AH8A		K8EDV	CT3TR		WB1LU	F8H1J		F8H1K	KA7AWK/HB8		WB7NZI	J37AJ		W2KF	AK3AA/KH9		W1ISD	PJ4CR		WB2LCH
AH1A		EA3AOC	OH1MA/CT3		OH1MA	F8H1J		OH1MA	HC1EA		W2KF	J39AA		WB2LCH	KL7H		W3HMK	KA9IBG/PJ4		WB2LCH
AP2SQ		W3HMK	CU1XKA		CT1XK	FY7YE/FW7		W5JLU	HC1OT		W2KF	J39BS		WB2LCH	AD8J/KP2		AD8J	W1AEL/PJ4		W1AEL
AP2ZA		WB6NLG	CK2ET		CT1EL	F8H1K		W2GEX	HG19HB		HA5KKG	J39CM		WB2LCH	K5NA/KP2		KU2D	K3UOC/PJ6		K3UOC
AX1ITU		VK1MM	CT3BBI		AC2J	F8H1B		WB6GFJ	HG5A		W6DQ6	J39CM		N6DX	KA6NOR/KP2		KA6NOR	KR4C/PJ7		KR4C
AX9ITU		VK5X1	CT3BR		W3HMK	F8H1E		W6GCG	HH2VP		W1FJ	J41JG		SV1JG	KX6BL		W1VUK	NC4U/PJ7		NC4U
BV8AA		OH2BH	CT4AAU		CK3AN	F8H1K		KA6LAF	K2DXX/HH2		W6DQ6	J61H		W2GEX	KX6BL		W1VUK	PJ1YOC		PY1DF
BV8JL		JG1OGT	CK4CQ		CK3AN	F8H1K		WB6GFJ	HH5JS		KCBJH	J61JG		W2LZX	KX6BL		VK6NS	PUSAF		PT7WJ
BV8YL		JG1OGT	CK580		CK3AN	F8H1K		WB6GFJ	H18CH		J61T		WB2LCH	KX6BL		KX6BL	N3DLO	PUSAF		PY1MCH
C38AAH		DL8OH	CK5CQ		CK7BY	F8H1K		F2BS	H18LC		W2KF	J73AB		KF4UP	KX6BL		AD1S	R8K		UABKCL
C38BBA	via	FGARI	CK6CP		CK3AN	F8H1K		WB6GFJ	H18AL		W2LCH	J73D		W2OB	LF7R		LA1HCA	R1Z	via	UK1ZAA
C38BLV		ET3CTE	CK7BY		W1JN	F8H1K		WB6GFJ	K2QA/H1B		K8DHK	J73HA		W2GEX	LS6LG		LA2ZN	RL8G		UL7OF
C38BLK		EA3TJ	CK9AU		CT2SA	F8H1K		WB6GFJ	HK8H8X		WB4OFH	J88AC		W2KF	LU1JTA		LU1JTA	RP3P		UP1B7O
C31BD		F8JLS	CY8SPI		VE1ASJ	F8H1K		WB6GFJ	HL1CG		HL1CG	J88AC		K7RLS	F6H1X/J8		K7RLS	RV1WY		U1A0Z
C31KI		DL5KV	CT3PCA		VE2DZE	F8H1K		F6GXB	HL1CG		HL1CG	J88AC		JA1ADW	K7RLS/J8		K7RLS	S79MC		AK3F
C31NP		EA3BND	N6GYZ/DU1		N6GYZ	K1RH/FP		K1RH	HL1SF		JH6YBW	J88AC		JA7AGD	WB2MOQ/OA4		JA7AGD	S79MC		DK21F
C31WX		DL3ZT	K6LNP/DU2		W7HPI	KA1C1/FP		K1RH	HL50C		KE6RH	J88AC		JE2PXX	O46EL		K8JHJ	S80DC		LA4DCA
C53CC		WA4VDE	K81Y/DU2		KA8HFB	W1CCN/FP		K1RH	HL90X		W5DDB	J88AC		JA1WU	OW5AO		F8DQA	SP8DC		SP7KTE
C53DU		DJ6SI	KK7K/DU2		W7NOR	F8H1F		WA4VDE	HL9FY		KCBLC	J78APE		UK3ABO	OW5FT		WA20AU	TL8GE/ST8		F6FYD
C5AEG		N6BFM	N6IUF/DU2		K8URA	FR7BP		W8AX	HL9JY		N2AEW	J78AJT		I8YGD	OW5LT		KA2BZS	ST2SA		DJ9ZB
K8GVB/C6A		K8GVB	WA2FW/DU2		W8HTEC	FR7DB		F8HMA	HL9RC		KCBLC	J78AJT		W7PHO	OW5LX		SM8DZJ	SH10L/SU		N8AFW
K5M4H/C6A		K5M4H	DU6RH		W7PHI	F8H1F		F8HMA	HL9RC		KA5E1	J78AJT		BUR	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
N4JTE/C6A		N4JTE	KD7UL/DU6		W7PHI	F8H1F		F8HMA	HL9RC		HL9TA	J78AJT		LA4YW	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
N5F8M/C6A		N5F8M	WB5LBJ/DU6		W7PHI	F8H1F		F8HMA	HL9RC		HL9TA	J78AJT		LA4YW	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
CE8AE		WA3HUP	DU7XX		DUEJM	FY7AN		FY7AN	HL9TA		HL9TA	J78AJT		LA4YW	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
CE8FCH		WB6MO	DX7DX		DUEJM	G3EJH		WA4VDE	HL9TA		HL9TA	J78AJT		LA4YW	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
CE8GBL		WB6MO	DX7DX		DUEJM	G3EJH		WA4VDE	HL9TA		HL9TA	J78AJT		LA4YW	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
CE8ZIA		KA1ILA	EA9NW		EA4BGL	G8H1X		G4IAR	HL9TA		HL9TA	J78AJT		LA4YW	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
CE3DPO		F51L	OH2BH/EA9		OH2BH	G8H1X		G4IAR	HL9TA		HL9TA	J78AJT		LA4YW	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
CN8AD		F8JL	EH3IYU		EA3AOC	G8H1X		G4IAR	HL9TA		HL9TA	J78AJT		LA4YW	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
CN8CC		F8FNU	EL2AG		WA4VDE	G8H1X		G4IAR	HL9TA		HL9TA	J78AJT		LA4YW	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
CN8CC		H8BAGH	EL2AV		N6FL	DF3GX/GU4		W2KN	HL9TA		HL9TA	J78AJT		LA4YW	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
CP6HK		WB4LFM	EL7W		K4SE	GUSCIA		N6MA	HL9TA		HL9TA	J78AJT		LA4YW	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
CP6IF		WB4LFM	EL9B		KD4ZS	H31LR		HP1L	HL9TA		HL9TA	J78AJT		LA4YW	OW5SH		WA3LUP	KA48SE/SU		W1G6Q
CP6IM	via	WB1DOO	EN4L	via	UA4LM	H44R	via	H44DX	IP8ONU	via	IBNEI	KC6RN	via	JH1RNZ	OX5RJ	via	WA1FSU	T3BAC	via	K8EDV

T38AT	via	G4GED	TU2JD	via	AK3F	VP2KM	via	WA6ZEF	YB3DC	via	K02A	ZP5JAL	via	K02A	SH3FG	via	VE7QM	BQ7XA	via	JE2PXX
T38CH		W8SLT	TU2LE		F6ESH	K4FW/VP2K		K4FW	YB5ASJ		W48BP	ZP5JCY		LU8DPM	SH3HS		DK8MZ	9A1C		I2VQZ
T38DB		G8LGB	TU7H		AK3F	VP2M		WB2LCH	YC1GJ		W2GEX	ZP5PCH		W3HMK	SH3LB		SM5CPC	9G1LA		N1AGX
T38RN		JH1RMZ	TU7I		AK3F	VP2MDG		WB6FDG	YJ8AIM		WB6RHE	ZP5XDW		N4DWM	SH3JQ		5Z4DP	9H1CE		W2KFO
T31AT		G4GED	T26CY		NBUS	VP2M1X		WB1JN	YJ8AKG		VK41OB	ZS1CT		DL2MY	SH3QM		VE7QM	9H1EL		LA2JO
T32AB		N7YL	U1NV		U21NWO	VP2MKY		KY5R	YJ8DX		JL1KDX	ZS3HL		KE1A	SH3RF		SM8EAO	9H3B		W2GBX
T32AD		G4GED	U2ANN		U21NWO	VP2MLD		WB2LCH	YJ8GX		F6KGB	ZV2BW		PT2BW	SH3TC		VE3DLV	9H3CB		G4PCK
TA1AS		DJ8OC	U2WZK		U21NWO	VP2MN		WB2LCH	YJ8OT		VK3OT	ZY8B1		PY8B1	SH3VB		N3DLB	9H3H8R		SH1AV
TA1MB		K2UO	U3LKG		UK3LAC	VP2MO		WB2LCH	YK1AA		DJ9ZB	129A		W7PHO	YU3KI/5W8		YU3KI	9J2KO		G3SLN
YU3FK/TA1		YU3FK	U5F00		UK5FAD	VP2MOC		W2KF	YN1FI		VE3JQD	3A8BA		I8MWT	SH3RT		DK21F	9K2BE		G4G1R
TA3GB		W2GBX	U5KDR		UK5KAA	VP2MP		W2KF	YN1OG		VE3JQD	3A8BA		W2GBX	SH3BL		WA4VDE	9K2PM		SM2OW
TABCN		NBCQ	U9Z		U4SYEW	VP2MPB		N3CEX	YS1UL		WA8JYJ	3A2ARM		OH2BH	SH3RD		F61IM	9L1FC		WABCAE
TE2TX		T12CF	UA10T		UB5KM	VP2MSS		K3RMC	YS9RVE		WA8JYJ	3A2EE		F9RM	SH3RY		F6FNU	9L1GA		N1FAG
TE5DX		T12CF	UK1PAB		UK8BAL	VP2MTY		W4FHN	YT7Y		W7BCD	DL1BA/3A		DL1BA	SH3LD		IN3RZY	DF2AL/9L1		DF2AL
TF5BG		F6CXV	UK2RDX		W7PHO	VP2VA		VE3MJ	YU3NM		YU3TPG	3B7CD		3B6CD	SH3TA		W6KNI	9M2AV		JA3BQE
KD5YF/TF		W5S00	UK8JBD		UJRJHM	VP2VEH		WB0VZ	Y22NFJ		YU2NFJ	3B8BD		K5B0X	SH3TO		W6KNI	9M2AV		JA3BQE
KD5YG/TF		AK1E	U050AO		W7PHO	VP2VGF		NP2AF	Y27VC		YU7ECD	302AJ		WB3CON	SH3UE		W6KNI	9M2AV		JA3BQE
KE45X/TF		KE45X	UW1PA		U21OWA	W89T1Y/VP2V		WB9T1Y	Z21GC		NTCBM	302BD		ZL1BD	SH3UE		VE3XJ	9M2AV		K02A
W7BTV/TF		W31VG	UW3HY/UW1		U41B5M	VP5MF		W3HMK	Z24JS		W3HMK	302DA		W4FCE	SH3UE		DL2KAD	9M2AV		N7EB
TG9TV		W3HMK	V2AZN		VE3DUS	VP8KF		G3VFW	ZB2CJ		G3ATU	302DX		VE6RA	SH3UE		JA1BK	9Q5FL		K4AEB
TG9XGV		K4CLA	F6H1X/V2A		F6EYS	VP8LP		G3VFW	ZB2FX		G3RFX	306AJ		WB3CON	SH3UE		W2KF	9Q5JB		ONSNT
TG9XHD		JA4GD	KA20TV/V2A		WB4QSN	VP8MT		GM4GR	ZC4SZ		G4MCO	306AK		G3VFW	SH3UE		WA4VDE	9Q5NA		K1VSK
T18HE		T12VVR	KK9A/V2A		KK9A	VP8NK		GM3ITN	ZD7CW		N4C1D	306AL		WB3CON	SH3UE		W2KF	9Q5CH		F3LQ
T12EW	via	KE1A	V3CAC	via	K8BG	VP9KA	via	W1BPM	ZD8KM	via	G31FB	306AO	via	WB3CON	SH3UE	via	KA4S	9U5JB	via	ONSNT
T12HI		T12VUE	V3WTH		W5CXF	VQ9AC		KE3EDN	ZD8RC		W3HMK	306DX		G3VFW	SH3UE		G4KJP	9U5JM		F3LQ
KD4LI/T12		W2GEX	N4DJK/V3		N4JWB	VQ9CI		KE4OC	ZD8TC		G4UPS	3K3TT		VE6ZZ	SH3UE		G8RQH	9V1VM		WB8TEC
KA4EIM/T14		N5B0R	V85GA		G4CCM	VQ9GE		WB7AWO	ZD8TM		ZD8AR	3V8AM		DL1ART	SH3UE		YU3TU	9V1VM		DF2GP
T15MRS		VE3MRS	V85HG		V55MH	VQ9VO		KAGV	ZD9BV		W4FRU	3V8PS		IN3RZY	SH3UE		N41PT	9V1WZ		BURD
T19CF		T12CF	V85MS		N200	VQ9WT		VQ9CI	ZD9CA		KA1DE	3X4EX		N4C1D	SH3UE		SM3CSW	9V4GX		W7PHO
T19J		T12J	V85SS		JA4ENK	V86BR		KA9W	ZD9CC		ZS2QK	LA2EP/3X4		N4C1D	SH3UE		SM3CSW	9V4GX		W7PHO
TJ1AF		WA4VDE	V85TT		BURD	V86CF		W5QK	ZD9YL		W4FRU	4KBB		U41MU	6B84TI		I2YAF	9Q5ME		IK4R8
TJ1QS		F6DUZ	V81GU		WB2LCH	V86CO		K4C1A	ZF2AH		WA6VNR	4K1B		U41MU	6B84TI		DJ3AS	9Q5NH		DL80B
TK5VN		FC9VN	VE1KA		WB2LCH	V86GX		G4LJF	ZF2FL		N6RJ	4K1F		U02QC	6W1CC		F6CVE	9Q5VL		ON4FR
TK6JUN		F5JY	VE1ASJ		VE1ASJ	VU2YDU		K4YT	ZF2GW		W2HPF	4K1GAG		U02QC	NRAJ/6W1		WB6VZ	9Q5WP		WB6VZ
PH1/TK		GU3KFT	VK38R		VK38R	VY31Y		VE31Y	ZF2HX		K5RQ	4M5ARV/4M6		VY5ARV	6W2EX		F6HRI	9Y4CDR		W5J0I
5RV/TK		F5RV	VK4BZZ		WB6GFJ	VY3KUK		VE3KUK	ZK1QZ		302FS	4M7PF		YU7JOL	6W6JU		F6GGS	9Y4OX		AG1
LBVA		WA4VDE	VK5ATB		WB2LCH	W16R		AK7Q	ZK1Z		W61S	4N7W		YU7JOL	6Y5OZ		WB8RDE	9Y4E		WA4NTQ
LBCK		F6GVM	VK9LH		VK2AGT	XE2FU		K5RC	ZL4LZ		W6ORD	4N8KKK		YU8CB	6Y5IC		KE3A	9Y4HM		K6JXQ
LBXT		G6WZR	VK9LL		W6REC	XE2MX		K6VNX	ZL7AMO		ZL1AMO	457NMH		K2BY	6Y5IT		WB2LCH	9Y4IH		W63AKJ
LBYP		F6FYD	VK9ZA		VK6YL	XJ3SAS		VE3FOI	ZL7BKM		ZL2HE	KBSAIV/457		W4FRU	6Y5MJ		K2BYB	9Y4JA		AC3A
LRBAB		F6AJA	VP2EAJ		K2K1T	XT2BJ		DL6FAL	ZL7PA		ZL3PA	4TBCP		N4CQ	6Y6A		GY5HN	9Y4JW		K201J
LRBAHO		DK1PO	VP2EC		NSAU	XT2BM		OE3KDA	ZL7PO		ZL4K1	4UTUN		W2MZW	7X2BK		F6EAK	9Y4LL		K201J
LRBR		TRBJD	VP2EH		KC5EA	XT2EB		DF5EO	ZL8AAS		ZL1AAS	4U91TU		W1RR	8J11TU		JA1RL	9Y4HP		W3HMK
LRDR		W2PD	VP2KBP		K11JV	XX9YD		K8FYD	ZL8AFH		ZL13AF	OH9TU/4U		OH9RJ	8P6DX		WB5AB	9Y4VE		VE3GCO
LRDM		F6ESH	VP2KBO		K11JV	DJ41J/XZ		DOJ5TO	ZL8AMO		ZL1AMO	4X3GID		4X4XQ	8P6DQ		W2GEX	9Y4VU		W3EVM
LRDMR		F6ERG	VP2KBU		ACBFW	YBBAFA		WA7OGU	ZL8BQD		ZL180D	4X2N/4X		AK2N	ZK2BY/8P6		K2BY	9Y4WCY		BURD
LRDP		F6KGU	VP2KBZ		VE3KZ	YBBAFA		K6DLV	ZM7VU		F6DYG	5H2BBI		5H2BBI	NB0CL/8P6		K2BY	9Y4XC		N6MNA
U2HH	via	WA4VDE	VP2KCA	via	K8JG	YB2ARH	via	K2HOR	ZP5AO	via	W3HMK	5H3OG	via	VE7CY	7Q7BM	via	JAB8MK	9Y5DK	via	N48RQ

15 SEP - 15 OCT	PST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	2	2
WESTERN & SOUTHERN EUROPE & NORTH AFRICA	10 15 20 40 80										1	1	2	1	1	1	3	3	2	1	1			1	2	1
CENTRAL & NORTHERN EUROPE & EUROPEAN USSR	15 20 40 80							1	2	1	2	1	1	1	2	2	2					1	1	1	1	1
EASTERN MEDITERRANEAN & MIDDLE EAST	15 20 40							1	2	1	2	2	1	1	1	2	2	1				1	1	2	1	1
WESTERN & CENTRAL AFRICA	10 15 20 40							1	2	1	1	2	1	1	2	3	3	2	4	4	3	3	2	2	1	1
EASTERN AFRICA	10 15 20 40											1	1	1	1	2	2	1	2	2	1	1	1			
SOUTHERN AFRICA	10 15 20 40		1					1	1	2	1	2	1	3	3	2	2	1	3	3	2	1	1	1	2	2
CENTRAL & SOUTH ASIA	10 15 20 40								1	1	2	1	2	1	1			1	2	1	1	2	1	1	1	
SOUTHEAST ASIA	10 15 20 40 80		2	1	1	2	2	1	1	3	3	2	1	2	2	1	1	1	2	2	1	1	1	1	1	2
FAR EAST	10 15 20 40 80		2	1	1	2	2	2	2	1	2	4	3	3	3	2	2	1	2	3	1	2	1	2	3	3
SOUTH PACIFIC & NEW ZEALAND	10 15 20 40 80		1	4	3	4	2	4	3	2	1	2	1	3	2	2	3	3	2	3	1	4	2	3	1	1
AUSTRALASIA	10 15 20 40 80		4	3	3	2	1	1	1	2	1	3	1	3	2	1	1	1	2	2	3	1	3	2	1	4
CARIBBEAN, CENTRAL AMERICA & NORTHERN SOUTH AMERICA	10 15 20 40 80		3	2	2	1	1	2	4	4	3	3	3	2	2	4	4	3	4	3	4	2	4	1	4	3
PERU, BOLIVIA, PARAGUAY, BRAZIL, CHILE, ARGENTINA & URUSUAY	10 15 20 40 80		3	2	2	1	2	2	1	1	1	1	1	1	1	3	4	4	3	4	3	4	4	1	4	3

FIRST CLASS MAIL

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CONTEST continued from page 1

little trouble in prioritizing station improvements and getting timely feedback on the changes he has made.

One more important benefit must be mentioned: contesting is just plain fun. You need not spend a grueling 48 hours if you don't want to. Your activity can be limited to a daytime or a nighttime band in many contests, allowing you to get some sleep or appease the family while still being competitive. Most contests have multi-operator entry categories; you can enjoy the comradery of team competition, let others do some (or, if you prefer,

most) of the operating and get help with the log-duping and QSLing chores. By the way, there are even outside computer services you can hire to handle some of the paperwork for a nominal fee.

Getting interested? Good! Future articles will deal with such matters as: 1) how operators and stations can be matched up for mutual benefit; 2) how the SCDXC repeater can be used, legally, to boost contest scores; and 3) why certain hams in the northern reaches of our state think we in Southern California are hopelessly incapable of working together and what we can do about it. Stay tuned!

QSL MANAGER INFORMATION INSERT

Several members have written and asked the editor to publish DX station QSL manager information. It seems like the Bulletin always fills up before the QSL information finds a place. So, this month I am including a recent list of QSL manager information courtesy of The Long Island DX Bulletin. This QSL information is included as an insert because, as usual, the space ran out before the material did - even though the small type is being used. I hope some find this information useful.